"A new bottling system

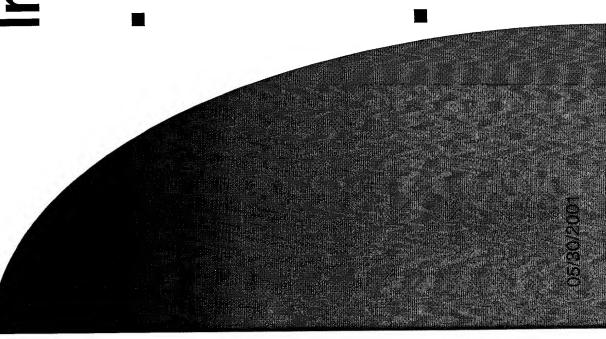
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Introduction

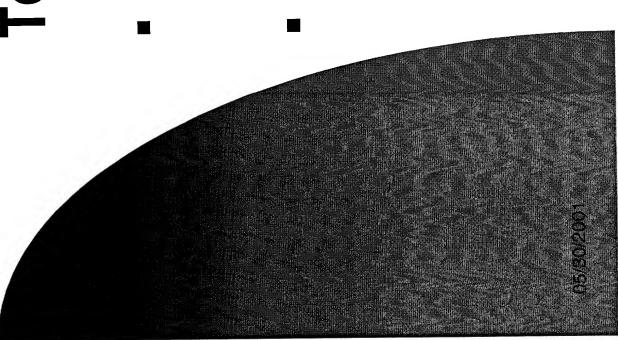
Project Description: To refill liquid Laundry Detergent Bottles instead Recycling Facility or discarding to of transferring to a Public a Landfill.

This new system involves the reuse of plastic bottles



Topics of Discussion

How do you set up a reusable bottling system? The Plan is to show you how it works and and the potential benefits.



Use refillable 30 or 55 gallon drums with spout nozzles thed (refer to drum diagram)

ms at the bottling facility

market by truck and off load using electric pallet

Franket drums will be loaded onto Aluminum or

Speles Sacks

Consumers will refill their plastic detergent bottles by turning the sport extremotion of the drum Plastic Deferment Containers will be labeled with the company Parefrank contact number, and "DO NOT DISCARD"

Feasibility

Keep a minimum on store racks Plastic Detergent Containers The idea is to produce less

 Less plastic containers amounts to lower energy costs for resin polymerization and molding

you can apply labels to drums containers as much because You don't need to label your

Target Buyers

"Consumers"

Education and Communication

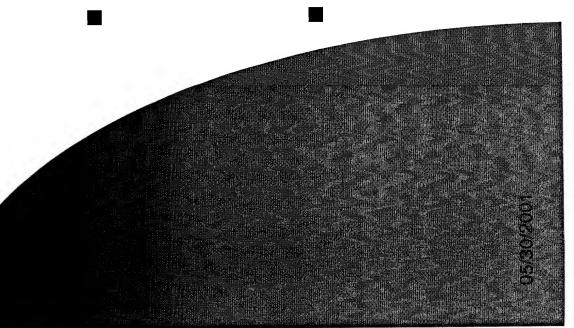
these bottles saves Energy and Educating them that reusing reduces product cost

management to put up store Communicating with store exhibits

Pilot Study

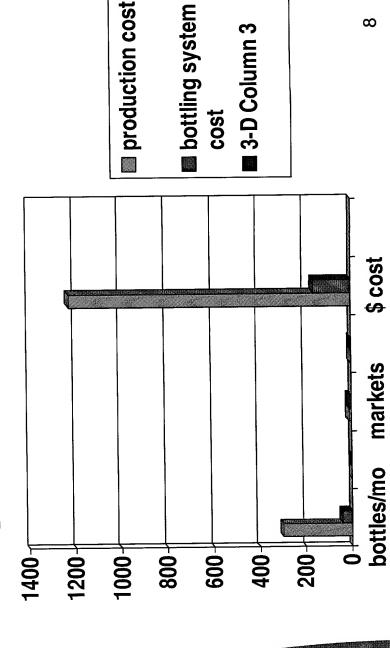
Conduct this new bottling plan at several crowded supermarkets

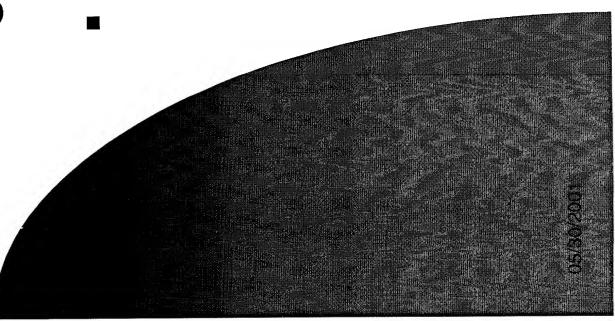
Market the system and inform consumers



Cost Benefit Analysis

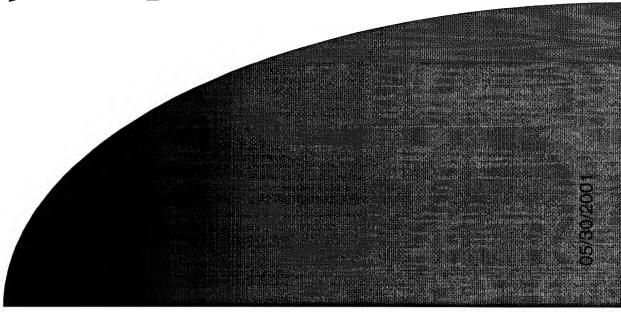
cost of bottle production vs potential This graph shows the estimated savings for reuse





What This Means

- This new system can be a powerful new tool for the bottling industry.
 - It takes a tremendous amount of energy to recycle and re-mold system will sufficiently reduce these bottles. The proposed energy costs if carried out efficiently



Cost vs. Benefits of HDPE bottle bottles/month 2	75 70 10 70 300	cost/bottle	simormarkate lbs/hottle	Ihe/hottle I	A	-
week stem veek)	75 10 /month c	0.52	STORE I I COLOR	1000000 I	\$ COST	\$ Benefits
stem veek)	10 /month c 300			282'0	306.93	306.93
	/month c 300	0.52	2	0.787	\$40,92	40.92
Bottles	300	ost /bottle	Bottles/month cost /bottle supermarket lbs/bottle,L	lbs/bottle,L	\$cost	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Z Estimate of current producton cost per month		0.52	10	0.787		1227.72
Estimate of cost with proposed bottling system	40	0.52	0	0.787	,	
Cost Savings per shipment (per month)			5			1064.02
10 b/wk*0.52/lb*0.787 lb/b*10 st.=\$40.92/wk						% savings
75 b/wk*0.52\$/lb*0787 lb/b*10 st.=\$306.93/wk	1	1		2 mm	to the second second	benefits
1.3 1.4 Source: E. Rojas, C.I.W.M.B.,9-28-2000 1.5 Blow molded resin cost (dairy) 0.50-0.53/lb	**************************************					29.98
16 Source: G. Howland, Scale/weight-Purex Bottle 3.78 L. 18 Weight Watchers Scale, model#907/9204						